International application No.

PCT/AU2004/000393

Α. (CLASSIFICATION OF SUBJECT MATTER	·				
Int. Cl. 7:	G01N 35/10, B41J 2/175					
According to I	nternational Patent Classification (IPC) or to both na	tional classification and IPC				
В. 1	FIELDS SEARCHED	•	_			
Minimum docur	mentation searched (classification system followed by class	sification symbols)				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data l	base consulted during the international search (name of dather of D, B41J, piezo, reservoir, tank, dispense,	ta base and, where practicable, search terms used), eject, vacuum, plunger, piston, filter and s	imilar terms			
	DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appro	priate, of the relevant passages	Relevant to claim No.			
х	WO 2000/005073 A (3WG INCORPORATED Page 1 lines 17-20, page 8 lines 3-14, page 8 lines 8	D) 3 February 2000 ine 24-page 9 line 3, figures	1-3, 7-9, 20			
. X	US 5552816 A (ODA et al) 3 September 1996 Col 1 lines 55-59, col 5 lines 29-32, col 9 line	55-col 10 line 6, figures 1-3	1-3, 7-18, 20			
х	US 5907341 A (MIYAZAWA) 25 May 1999 Abstract, column 3 lines 13-65, figures	1-3, 7-9, 20				
x .	US 6511157 B1 (YOSHIMURA et al) 28 January Column 1 line 34-column 2 line 39, column 4	1-3, 7-9, 20				
X F	urther documents are listed in the continuation	of Box C X See patent family ann	ex			
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the "X" Iater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel 						
international filing date or cannot be considered to involve an inventive step when the document is tak alone "L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be considered involve an inventive step when the document is combined with one or more of involve an inventive step when the document is combined with one or more of						
another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family						
	nt published prior to the international filing date than the priority date claimed					
1	ual completion of the international search	Date of mailing of the international search report - 7 JUN 2004				
27 May 2004 Name and mail	ing address of the ISA/AU	Authorized officer				
AUSTRALIAN PO BOX 200, ' E-mail address:	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA : pct@ipaustralia.gov.au (02) 6285 3929	GREG POWELL Telephone No : (02) 6283 2308				

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C (Continuati		D. L
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	US 5680164 A (MILLER et al) 21 October 1997 Figures 2-10	7-18, 20
x	JP 2000-329771 A (OLYMPUS OPTICAL CO LTD) 30 November 2000 Abstract, figures	. 20
P, X	NL 1019359 C (MACHINEFABRIEK ROERSTREEK B.V.) 14 May 2003 Abstract, figures	20
		3

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internate reasons:	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:
See se	parate sheet
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	n Protest The additional search fees were accompanied by the applicant's protest.
	X No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box III:

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-6 are directed towards a piezoelectric dispensing device which has a removable reservoir for containing liquid, a piezoelectric tube in communication with the reservoir and means which applies a vacuum or pressure to the liquid in the reservoir. It is considered that the means to supply a vacuum or pressure to the liquid in the reservoir comprises a first "special technical feature".
- Claims 7-19 are directed to a piezoelectric dispensing device which has a reservoir for containing liquid, and a piezoelectric tube in communication with the reservoir. The reservoir includes first a second filter means. It is considered that the reservoir having first and second filter means comprises a second "special technical feature".
- 3. Claim 20 is directed to a method of dispensing fluid from a piezoelectric tube assembly, which has a dispensing end and a non-dispensing end. The method comprises dispensing fluid from a reservoir which is connected to the non-dispensing end of tube. It is considered that the step of dispensing fluid from a reservoir which is connected to the non-dispensing end of tube comprises a third "special technical feature".

The feature common to all of the claims is a reservoir connected to a piezoelectric tube. However this common feature is generic in the printing and dispensing arts. Consequently the common feature does not constitute "a special technical feature" within the meaning of PCT Rule 13.2, second sentence, since it makes no contribution over the prior art. Since there exists no other common feature which can be considered as a special technical feature within the meaning of PCT Rule 13.2, second sentence, no technical relationship within the meaning of PCT Rule 13 between the different inventions can be seen. Consequently the claims do not satisfy the requirement of unity of invention a posteriori.

Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pate	ent Family Member		
wo	2000/005073	AU	52260/99				
US	5552816	JР	5-330076				
US	5907341	EP	665108	EP	914956	. HK	1020550
		JP	7-125238	SG	52541	US	5633667
		US	6280024				
US	6511157	DE	19708016	JР	9-239974		
US	5680164	DE	19512812	GB	2295583	HK	1011949
JP	2000-329771	NONE					
NL	1019359	NONE					

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX